SONY®

LCD Digital Colour TV

Operating Instructions

Instructions on "Installing the Wall-Mount Bracket" are not supplied in the form of a separate leaflet with this TV. These installation instructions are included within this TV's instructions manual.



For useful information about Sony products

http://www.sony-europe.com/myproduct/

4106868131

4-106-868-**13**(1)

BRAVIA

http://www.sony.net/

KDL-52W4500 KDL-46W4500

KDL-40W4500

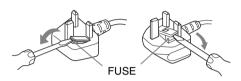
NOTICE FOR CUSTOMERS IN THE UNITED KINGDOM

A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience.

Should the fuse in the plug supplied need to be replaced, a 10 AMP fuse approved by ASTA or BSI to BS 1362 (i.e., marked with rows) must be used.

When an alternative type of plug is used it should be fitted with a 10 AMP FUSE otherwise the circuit should be protected by a 10 AMP FUSE at the distribution board.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.



How to replace the fuse

Open the fuse compartment with a blade screwdriver, and replace the fuse.

Please refer to the illustration that actually equipped with the product.

Introduction

Thank you for choosing this Sony product.

Before operating the TV, please read this manual thoroughly and retain it for future reference.

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

Notice for Digital TV function

- ☐ The cable provider may charge an additional fee for such a service and you may be required to agree to their terms and conditions of business.
- ☐ Although this TV set follows DVB-T and DVB-C specifications, compatibility with future DVB-T digital terrestrial and DVB-C digital cable broadcasts cannot be guaranteed
- ☐ Some Digital TV functions may not be available in some countries/regions and DVB-C cable may not operate correctly with all providers.
- ☐ For more information about DVB-C functionality please see our cable support site: http://support.sony-europe.com/TV/DVBC/

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 DLNA and DLNA CERTIFIED are trademarks and/or service marks of Digital Living Network Alliance.
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 ITS RELATED AFFILIATES ARE NOT IN ANY WAY
 LIABLE FOR THE ACCURACY OF THE PROGRAM

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GB

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Connecting the TV to the Network

: for digital channels only

A Before operating the TV, please read the "Safety Information" section of this manual. Retain this manual for future reference.

Start-up Guide

Before Use

To check the accessories

Mains lead (1)

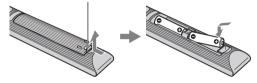
Remote RM-ED011 (1)

Size AA batteries (R6 type) (2)

Stand (1) and screws for stand (4) (KDL-46W4500/KDL-40W4500 only)

To insert batteries into the remote

Push and lift the cover to open.

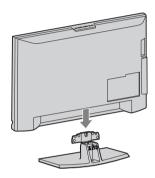




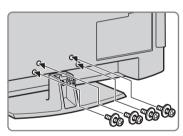
- Observe the correct polarity when inserting batteries.
- Do not use different types of batteries together or mix old and new batteries.
- Dispose of batteries in an environmentally friendly way. Certain regions may regulate the disposal of batteries. Please consult your local authority.
- Handle the remote with care. Do not drop or step on it, or spill liquid of any kind onto it.
- Do not place the remote in a location near a heat source, a place subject to direct sunlight, or a damp room.

1: Attaching the stand (for KDL-46W4500/ KDL-40W4500)

- 1 Open the carton box and take out the stand and the screws.
- **2** Place the TV set on the stand. Take care not to interfere with cables.



3 Fix the TV to the stand according to the arrow marks ★ that guide the screw holes using the supplied screws.

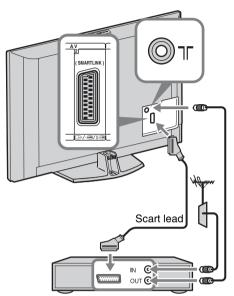




• If using an electric screwdriver, set the tightening torque at approximately 1.5 N·m {15 kgf·cm}.

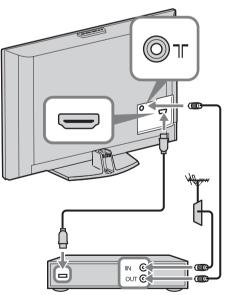
2: Connecting an aerial/Set Top Box/recorder (e.g. DVD recorder)

Connecting a Set Top Box/recorder (e.g. DVD recorder) with SCART



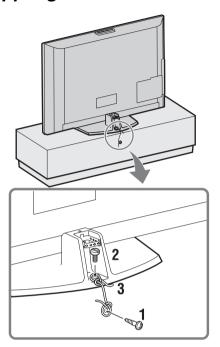
Set Top Box/recorder (e.g. DVD recorder)

Connecting a Set Top Box/recorder (e.g. DVD recorder) with HDMI



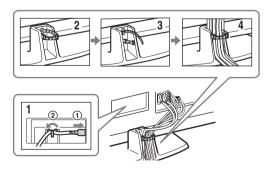
Set Top Box/recorder (e.g. DVD recorder)

3: Preventing the TV from toppling over



- 1 Install a wood screw (4 mm in diameter, not supplied) in the TV stand.
- 2 Install a machine screw (M6 x 12, not supplied) into the screw hole of the TV.
- **3** Tie the wood screw and the machine screw with a strong cord.

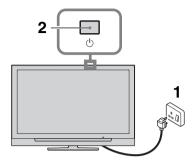
4: Bundling the cables





 Do not bundle the mains lead together with other cables.

5: Performing the initial setup





- 1 Connect the TV to your mains socket (220-240V AC, 50Hz).
- **2** Press \bigcirc on the TV.

When you switch on the TV for the first time, the language menu appears on the screen.

3 Press �/�/�/⇔ to select the language displayed on the menu screens, then press ⊕.



4 Press �/♥ to select the country in which you will operate the TV, then press ⊕.



If the country in which you want to use the TV does not appear in the list, select "-" instead of a country.

Press ô/∜ to select the location type in which you will operate the TV, then press⊕.



• Select "Home" for the best TV settings to use the TV in the home.



6 Select "Yes" then press \oplus .



7 Press �/� to select "Antenna" or "Cable", then press ⊕.

If you select "Cable", the screen for selecting the scan type appears. See "To tune the TV for Cable connection" (page 7).

The TV starts searching for all available digital channels, followed by all available analogue channels. This may take some time, so do not press any buttons on the TV or remote while proceeding.

If a message appears for you to confirm the aerial connection

No digital or analogue channels were found. Check all the aerial/cable connection and then press \oplus to start autotuning again.

8 When the "Programme Sorting" menu appears on the screen, follow the steps of "Programme Sorting" (page 42).

If you do not change the order in which the analogue channels are stored on the TV, press $\stackrel{\longleftarrow}{\longrightarrow}$ **RETURN** to go to step 9.

9



For details, see page 37.

10



For details, see page 29. Following this step, GUIDE Plus+ setting screen appears only when GUIDE Plus+ is available.

11 Press ⊕.

The TV has now tuned in all the available channels.



• When a digital broadcast channel cannot be received, or when selecting a country in which there are no digital broadcasts in step 4, the time must be set after performing step 8.

To tune the TV for Cable connection

- **1** Press ⊕.
- 2 Press �/� to select "Quick Scan" or "Full Scan", then press ⊕.

"Quick Scan": channels are tuned according to the cable operator information within the broadcast signal. Recommended setting for "Frequency", "Network ID" and "Symbol Rate" is "Auto."

This option is recommended for fast tuning when supported by your cable operator.

If the "Quick Scan" does not tune, please use the "Full Scan" method below.

"Full Scan": All available channels are tuned and stored. This procedure may take some time.

This option is recommended when "Quick Scan" is not supported by your cable provider.

For further information about supported cable providers, refer to support web site: http://support.sony-europe.com/TV/
DVBC/

3 Press ♦ to select "Start", then press ⊕.
The TV starts searching for channels. Do not press any buttons on the TV or remote.



• Some cable providers do not support "Quick Scan." If no channels are detected using "Quick Scan", perform "Full Scan."

To set-up GUIDE Plus+ system (only when GUIDE Plus+ system is available)*

- * Condition you can set-up this feature:
 - in UK, Italy, Germany or Spain.
 - you can receive digital broadcasting.
 - when "Antenna" is selected in step 7 of "5:Performing the initial set-up."



• Enter from the left, when the postal code is fewer than seven digits.

2 Select language for GUIDE Plus+.

This step will be skipped if any one of the following languages is selected in step 3 of "5: Performing the initial set-up": "English", "Deutsch", "Español", "Italiano", "Français" or "Nederlands."

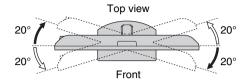
3 GUIDE Plus+ Data Download.

The initial download may take some time, so do not press any buttons on the TV or remote while proceeding. Once you have received the first download of TV listings data, all future downloads will be done automatically.

Adjusting the Viewing Angle of the TV

This TV can be adjusted within the angles shown below.

Adjust the angle left and right (swivel)



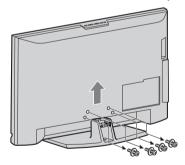


 When adjusting the angle, hold the Table-Top Stand with one hand to avoid slipping or tipping the TV.

Detaching the Table-Top Stand from the TV



- Do not remove the Table-Top Stand for any reason other than listed below.
 - To wall-mount the TV.
 - To put the TV in the carton at time of purchase (KDL-46W4500/ KDL-40W4500 only).



Safety Information

Installation/Set-up

Install and use the TV set in accordance with the instructions below in order to avoid any risk of fire, electrical shock or damage and/or injuries.

Installation

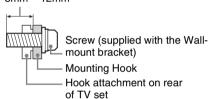
- ☐ The TV set should be installed near an easily accessible mains
- ☐ Place the TV set on a stable, level surface.
- ☐ Only qualified service personnel should carry out wall installations.
- ☐ For safety reasons, it is strongly recommended that you use Sony accessories, including:
 - Wall-Mount Bracket SU-WL500
- ☐ Be sure to use the screws supplied with the Wall-mount bracket when attaching the mounting hooks to the TV set.

The supplied screws are designed so that they are 8 mm to 12 mm in length when measured from the attaching surface of the mounting hook.

The diameter and length of the screws differ depending on the Wall-mount bracket model

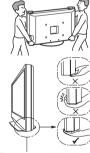
Use of screws other than those supplied may result in internal damage to the TV set or cause it to fall, etc.

8mm - 12mm



Transporting

- ☐ Before transporting the TV set, disconnect all cables.
- \square Two or three people are needed to transport a large TV set.
- ☐ When transporting the TV set by hand, hold it as shown on the right. Do not put stress on the LCD panel and the frame around the screen.
- ☐ When lifting or moving the TV set, hold it firmly from the bottom.
- ☐ When transporting the TV set, do not subject it to jolts or excessive vibration. ☐ When transporting the TV set for
- repairs or when moving, pack it using the original carton and packing bottom of the panel, material.

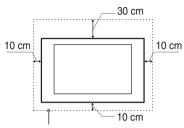


Be sure to hold the not the front part.

Ventilation

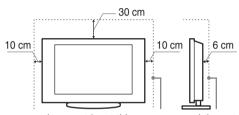
- ☐ Never cover the ventilation holes or insert anything in the
- ☐ Leave space around the TV set as shown below.
- It is strongly recommended that you use a Sony wall-mount bracket in order to provide adequate air-circulation.

Installed on the wall



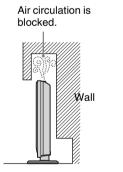
Leave at least this space around the set.

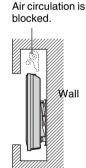
Installed with stand



Leave at least this space around the set.

- ☐ To ensure proper ventilation and prevent the collection of dirt
 - Do not lay the TV set flat, install upside down, backwards, or sideways.
 - Do not place the TV set on a shelf, rug, bed or in a closet.
 - Do not cover the TV set with a cloth, such as curtains, or items such as newspapers, etc.
 - Do not install the TV set as shown below.





Mains lead

Handle the mains lead and socket as follows in order to avoid any risk of fire, electrical shock or damage and/or injuries:

- Use only mains leads supplied by Sony, not other suppliers.
- Insert the plug fully into the mains socket.
- Operate the TV set on a 220-240 V AC supply only.
- When wiring cables, be sure to unplug the mains lead for your safety and take care not to catch your feet on the cables.
- Disconnect the mains lead from the mains socket before working on or moving the TV set.
- Keep the mains lead away from heat sources.
- Unplug the mains plug and clean it regularly. If the plug is covered with dust and it picks up moisture, its insulation may deteriorate, which could result in a fire.

Notes

	Do not use the supplied mains lead on any other equipment.
	Do not pinch, bend, or twist the mains lead excessively. The
	core conductors may be exposed or broken.
	Do not modify the mains lead.
	Do not put anything heavy on the mains lead.
	Do not pull on the mains lead itself when disconnecting the mains lead.
	Do not connect too many appliances to the same mains sock
П	Do not use a poor fitting mains socket

Prohibited Usage

Do not install/use the TV set in locations, environments or situations such as those listed below, or the TV set may malfunction and cause a fire, electrical shock, damage and/or injuries.

Location:

Outdoors (in direct sunlight), at the seashore, on a ship or other vessel, inside a vehicle, in medical institutions, unstable locations, near water, rain, moisture or smoke.

Environment:

Places that are hot, humid, or excessively dusty; where insects may enter; where it might be exposed to mechanical vibration, near flammable objects (candles, etc).

The TV set shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the TV.

Situation:

Do not use when your hands are wet, with the cabinet removed, or with attachments not recommended by the manufacturer. Disconnect the TV set from mains socket and aerial during lightning storms.

Broken pieces:

 _	Do not throw anything at the 1 v set. The screen glass may
	break by the impact and cause serious injury.
	If the surface of the TV set cracks, do not touch it until you have
	unplugged the mains lead. Otherwise electric shock may result

When not in use

	If you will not be using the TV set for several days, the TV se
	should be disconnected from the mains for environmental and
	safety reasons.
	As the TV set is not disconnected from the mains when the TV

- As the TV set is not disconnected from the mains when the TV set is just turned off, pull the plug from the mains to disconnect the TV set completely.
- ☐ However, some TV sets may have features that require the TV set to be left in standby to work correctly.

For children

Do not allow children to climb on the TV set.
Keep small accessories out of the reach of children, so that they
are not mistakenly swallowed.

If the following problems occur...

Turn off the TV set and unplug the mains lead immediately if any of the following problems occur.

Ask your dealer or Sony service centre to have it checked by qualified service personnel.

When:

- Mains lead is damaged.
- Poor fitting of mains socket.
- TV set is damaged by being dropped, hit or having something thrown at it
- Any liquid or solid object falls through openings in the cabinet.

Precautions

Viewing the TV

- ☐ View the TV in moderate light, as viewing the TV in poor light or during long period of time, strains your eyes.
- ☐ When using headphones, adjust the volume so as to avoid excessive levels, as hearing damage may result.

LCD Screen

- ☐ Although the LCD screen is made with high-precision technology and 99.99% or more of the pixels are effective, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is a structural property of the LCD screen and is not a malfunction.
- ☐ Do not push or scratch the front filter, or place objects on top of this TV set. The image may be uneven or the LCD screen may
- ☐ If this TV set is used in a cold place, a smear may occur in the picture or the picture may become dark. This does not indicate a failure. These phenomena disappear as the temperature rises.
- ☐ Ghosting may occur when still pictures are displayed continuously. It may disappear after a few moments.
- ☐ The screen and cabinet get warm when this TV set is in use. This is not a malfunction.
- ☐ The LCD screen contains a small amount of liquid crystal. Some fluorescent tubes used in this TV set also contain mercury. Follow your local ordinances and regulations for

Handling and cleaning the screen surface/ cabinet of the TV set

Be sure to unplug the mains lead connected to the TV set from mains socket before cleaning.

To avoid material degradation or screen coating degradation, observe the following precautions.

- ☐ To remove dust from the screen surface/cabinet, wipe gently with a soft cloth. If dust is persistent, wipe with a soft cloth slightly moistened with a diluted mild detergent solution.
- ☐ Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide. Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the screen surface and cabinet material.
- ☐ Periodic vacuuming of the ventilation opening is recommended to ensure to proper ventilation.
- When adjusting the angle of the TV set, move it slowly so as to prevent the TV set from moving or slipping off from its table

Optional Equipment

Keep optional components or any equipment emitting electromagnetic radiation away from the TV set. Otherwise picture distortion and/or noisy sound may occur.

Disposal of the TV set





Disposal of Old Electrical & **Electronic Equipment** (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable

collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

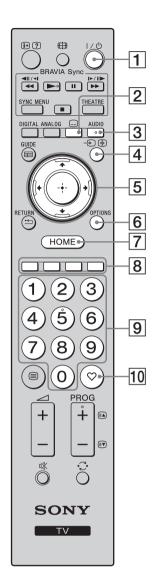


Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

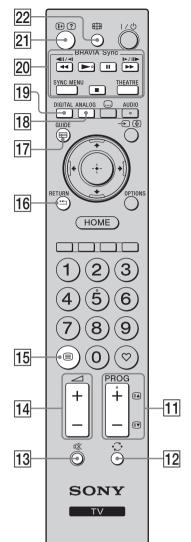
This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. By ensuring these batteries are disposed

of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources. In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Remote and TV Controls/Indicators



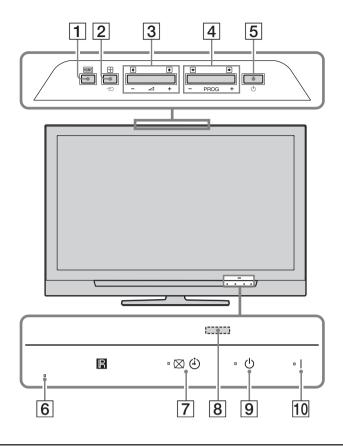
Button	Description
1 I/U (TV standby)	Turns the TV on and off from standby mode.
2 (Subtitles)	Press to display the subtitles on current programme if TV channels broadcast such information (in digital mode only) (page 44).
3 AUDIO	In analogue mode: Press to change the dual sound mode (page 36). In digital mode: Press to select the audio language (page 44).
4 →/⊕ (Input select/Text hold)	In TV mode: Selects the input source from equipment connected to the TV sockets (page 25). In Text mode (page 16): Holds the current page.
5	Press �/∜/¢/\$ to move the on-screen cursor. Press ⊕ to select/confirm the highlighted item.
6 OPTIONS	Enables you to access various viewing options and change/make adjustments according to the source and screen format.
7 HOME	Displays the TV Home menu.
8 Coloured buttons	When the coloured buttons are available, an operation guide appears on the screen. Follow the operation guide to perform a selected operation.
9 Number buttons	In TV mode: Selects channels. For channel numbers 10 and above, enter the second and third digit quickly. In Text mode: Press to enter a page number.
10 ♥ (Favourite)	Press to display the digital favourite list that you have specified (page 21).



Button	Description
11 PROG +/-/ [2]/[7]	In TV mode: Selects the next (+) or previous (-) channel. In Text mode (page 16): Selects the next ((a)) or previous ((a)) page.
① (Previous channel)	Returns to the previous channel watched (for more than five seconds).
13 × (Mute the sound)	Press to mute the sound. Press again to restore the sound.
	• In standby mode, if you want to turn on the TV without sound, press this button.
14 \(\square +/-\) (Volume)	Press to adjust the volume.
15 (Text)	Press to display text information (page 16).
16 ⁴ /RETURN	Returns to the previous screen of any displayed menu.
17 ⊫/GUIDE (EPG)	Press to display the Digital Electronic Programme Guide (EPG) (page 17, 20).
18 ANALOG	Press to display the analogue channel that was last viewed.
19 DIGITAL	Press to display the digital channel that was last viewed.
20 BRAVIA Sync	You can operate the equipment connected to the TV (page 29).
②1 ⊕/② (Info/ Text reveal)	In digital mode: Displays details of the programme currently being watched. In analogue mode: Each time you press ⊕/ ②, the information on the screen changes as follows: Displays information such as current channel number and screen format → Time is displayed → Information is hidden. In Text mode (page 16): Reveals hidden information (e.g. answers to a quiz).
22 ∰ (Screen mode)	Press to change the screen format (page 16).



• The number 5, **PROG** +, **AUDIO** and **▶** buttons have tactile dots. Use the tactile dots as references when operating the TV.



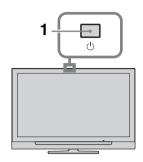
Button	Description
1 HOME (HOME)	Displays the TV Home menu.
2 ⊕/⊕ (Input select/OK)	In TV mode: Selects the input source from equipment connected to the TV sockets (page 25). In TV menu: Selects the menu or option, and confirms the setting.
3 ∠+/-/→/←	In TV mode: Increases (+) or decreases (−) the volume. In TV menu: Moves through the options right (♠) or left (♠).
4 PROG +/-/↑/↓	In TV mode: Selects the next (+) or previous (−) channel. In TV menu: Moves through the options up (♠) or down (♣).
5 (Power)	Turns the TV on or off.
	• To disconnect the TV completely, pull the plug from the mains.
6 Light Sensor	Do not put anything over the sensor, as its function may be affected.
7 ⋈ ⊕ (Picture Off/Timer indicator)	Lights up in green when the picture is switched off (page 37). Lights up in orange when the reminder is set (page 18, 20) or the timer is set (page 38).
8 Remote control sensor	Receives IR signals from the remote. Do not put anything over the sensor, as its function may be affected.
9 (Standby indicator)	Lights up in red when the TV is in standby mode.
10 I (Power indicator)	Lights up in green when the TV is turned on.

ØD.

- Make sure that the TV is completely turned off before unplugging the mains lead. Unplugging the mains lead while the TV is turned on may cause the indicator to remain lit or may cause the TV to malfunction.
- Do not put anything over the indicators as their functions may be affected.

Watching TV

Watching TV





- 1 Press (b) on the TV to switch on the TV.

 When the TV is in standby mode (the (b) (standby) indicator on the TV (front) is red), press (b) on the remote to switch on the TV.
- 2 Press DIGITAL to switch to digital mode or ANALOG to switch to analogue mode.

The channels available vary depending on the mode.

3 Press the number buttons or **PROG +/-** to select a TV channel.

To select channel numbers 10 and above using the number buttons, enter the second and third digits within two seconds.

To select a digital channel using the Guide, see page 17 or 20.

In digital mode

An information banner appears briefly. The following icons may be indicated on the banner.

- ☐ : Interactive service (MHEG Digital Text) is available
- ☑ : Interactive service (MHEG Digital Text) is currently disabled
- : Radio service
- 🗱 : Scrambled/Subscription service
- : Multiple audio languages available
- ... : Subtitles available
- Subtitles available for the hearing impaired
- (8) : Recommended minimum age for current programme (from 4 to 18 years)
- : Parental Lock

Additional operations

То	Do this
Turn on the TV from standby mode without sound	Press [□] X. Press ∠ +/– to set the volume level.
Adjust the volume	Press ∠ + (increase)/ - (decrease).

To access Digital Text

Many broadcasters provide a Digital Text service. Digital Text offers graphically rich contents, compared to Analogue Text. Select a digital channel which provides Digital Text, then press .

When a broadcaster provides a dedicated Digital Text channel, select this channel to access Digital Text.

To navigate through Digital Text, follow the instructions on the screen.

To exit Digital Text, press === RETURN.

To move around, press �/⇩/⟨Þ/⟨Þ⟩.

To select items, press \oplus and the number buttons.

To access shortcuts, press the coloured buttons.

To access Text

Press . Each time you press , the display changes cyclically as follows:

Text → Text over the TV picture (mix mode) → No Text (exit the Text service)

To select a page, press the number buttons or A/v.

To hold a page, press - / \oplus .

To reveal hidden information, press \oplus /?.

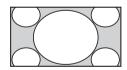


 When four coloured items appear at the bottom of the Text page, Fastext is available. Fastext allows you to access pages quickly and easily. Press the corresponding coloured button to access the page.

To change the screen format manually

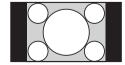
Press ## repeatedly to select the desired screen format.

Smart*



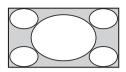
Displays conventional 4:3 broadcasts with an imitation wide screen effect. The 4:3 picture is stretched to fill the screen.

4:3



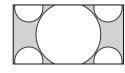
Displays conventional 4:3 broadcasts (e.g. non-wide screen TV) in the correct proportions.

Wide



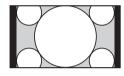
Displays wide screen (16:9) broadcasts in the correct proportions.

Zoom*



Displays cinemascopic (letter box format) broadcasts in the correct proportions.

14:9*



Displays 14:9 broadcasts in the correct proportions. As a result, black border areas are visible on the screen.

* Parts of the top and bottom of the picture may be cut off.



• Some characters and/or letters at the top and the bottom of the picture may not be visible in Smart mode. In such a case, you can select "Vertical Size" using the "Screen Settings" (page 39) menu and adjust vertical size to make it visible.



- When "Auto Format" is set to "On", the TV will automatically select the best mode to suit the broadcast (page 39).
- You can adjust the position of the picture when selecting "Smart", "14:9" or "Zoom." Press �/∜ to move up or down (e.g. to read subtitles).

Using the Options menu

Press **OPTIONS** to display the following options when viewing a TV programme.

Option	Description
Picture Mode	See page 35.
Sound Mode	See page 36.
Surround	See page 36.
Speaker	See page 41.
Motionflow	See page 37.
Subtitle Setting (in digital mode only)	See page 44.
Sleep Timer	See page 38.
Power Saving	See page 37.
System Information (in digital mode only)	See page 45.

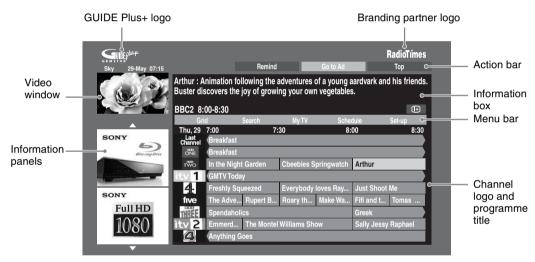
Using GUIDE Plus+™ System^{*} and the Digital Electronic Programme Guide (EPG) Dv3^{**}

- * Condition you can set-up this feature:
- in UK, Italy, France, Germany or Spain.
- you can receive digital broadcasting.
- when "Antenna" is selected in step 7 of "5: Performing the initial set-up."
- ** This function may not be available in some countries/regions.

Using GUIDE Plus+

Use GUIDE Plus+ system to find the show that you want to watch. The feature allows you to search for shows by programme categories and by keyword. The GUIDE Plus+ programme provides up to eight days of TV programming information. Be sure to complete the initial set-up on page 6 to use this service.

GUIDE Plus+ System Components





- Image shown above varies depending on country/region.
- Information panels is not Sony provided, adverts from Branding Partner.
- The function of action bar varies with cursor location and when in settings.

1 Press **≡ GUIDE**.

2 Perform the desired operation as shown in the following table or displayed on the screen.

То	Do this
View a programme	Press �/∜/⟨-/-> to select a programme, then press ⊕.
	• The programme information will appear in the information box.
	 Press ⊕/② to access the extended information box for a long
	synopsis.
	 You can use PROG +/- to page up/down through the listings.
	Press BRAVIA sync ◀◀/▶▶ to go to the next day or one day back.
Turn off the TV Guide	Press GUIDE to exit TV Guide.

То	Do this
Set a programme to be displayed automatically on the screen when it starts - Reminder	Press �/∜/⟨-/-> to select a future programme you want to watch, then press the green button. • To cancel a reminder, press the red button when "Reminder" is highlighted or use "Schedule" on the menu bar. • If you switch the TV to standby mode, it will automatically turn itself on when the programme is about to start.
Menu bar	Press ☆ repeatedly to access the menu bar. Press ⇔/⇔ to select area. ("Grid", "Search", "My TV", "Schedule" and "Set-up") You can view a programme or set a reminder in "Grid" area.
Search a programme – Search	You can quickly and easily find something of interest to watch or to set a reminder by category (e.g. Sport) or subcategory (e.g. Football) of a programme. 1 Highlight "Search" on the menu bar, then, press ❖ only one time. 2 Press �/❖/❖/❖ to select a category or subcategory, then press ⊕.
Search your own keyword – My Choice	 In addition to the standard categories and sub-categories, you can set your own search keywords. 1 Highlight "My Choice" in the "Search" area on the menu bar. 2 Press yellow button to add a keyword, then the virtual keyboard appears. 3 Use the virtual keyboard to enter your keyword. 4 Confirm with the green button. 5 Your personal keyword appears in the "My Choice." 6 Select your keyword and press ⊕ to start a search according to your personal keyword.
Set a Profile and receive recommendations according to your preferences – My TV	The "My TV" area allows you to set up a personal profile. You can define a personal profile by channels, categories and/or by keywords. The "My TV" area is making recommendations to you to quickly and easily find something of interest to watch or to set a reminder. How to set your profile: 1 Highlight "My TV" on the menu bar, press the green button to set your profile. 2 Press �/� to select channels, categories or keywords. 3 Press the yellow button to add a channel, a category or a keyword to your profile. 4 Press �/�/�/⇔/⇔ to select a channel, a category or a keyword, then press ⊕. 5 Repeat step 2 to 4 to add more items. 6 Press ⊕ to activate your profile. □ □ □ □ □ □ □ □ □ □ □ □ □
Delete and edit reminder – Schedule	 You can delete or edit with the red and green buttons. Highlight "Schedule" on the menu bar. Press ŵ/∜ to delete or edit with the red and green buttons. When no reminder is set, "No programmes" is displayed. Press \$ to highlight "Frequency" (e.g.weekly) or "Timing" (e.g.reminder timing:10 min early), you can change this settings by pressing colour buttons.

То	Do this
Configure the GUIDE Plus+ system according to your personal situation – Set-up	 Highlight "Set-up" on menu bar. Press ♠/∜ for you to select below items you want to configure. "Personal Preferences": You can change the on screen language, change reminder timing and set overnight download. "Start Installation Sequence": This feature provides an easy way to
	restart your installation from scratch. This will delete all your current TV listing data. "Manual Data Download": Update your TV listings immediately. If the TV is switched off during several days, TV listings will not be updated automatically. In this case, use this feature to update TV listings. "GUIDE Plus+ System Information" screen: Display GUIDE Plus+ system information. This screen is providing several values that are helpful for troubleshooting.

Using the Digital Electronic Programme Guide (EPG) DV3 **



- 1 In digital mode, press **GUIDE**.
- **2** Perform the desired operation as shown in the following table or displayed on the screen.
- ** This function may not be available in some countries/regions.

 To switch the GUIDE (Sony Guide or GUIDE Plus+), see page 45.

То	Do this	
Watch a programme	Press �/♂/�/⇔ to select the programme, then press ⊕.	
Turn off the Guide	Press ≡ GUIDE .	
Sort the programme information by category - Category list	 Press the blue button. Press ♦/♦ to select a category, then press ⊕. 	
Set a programme to be displayed automatically on the screen when it	1 Press �/�/�/⇔ to select the future programme you want to display, then press ⊕/②.	
starts – Reminder	2 Press �/⅌ to select "Reminder", then press ⊕.	
- Kennidei	A ② symbol appears by that programme's information. The ☒ ④ indicator on the TV front panel lights up in orange.	
	• If you switch the TV to standby mode, it will automatically turn itself on when the programme is about to start.	
Cancel reminder	1 Press ⊕/?.	
Cancel Timer	2 Press �/⅌ to select "Timer list", then press ⊕.	
	3 Press �/� to select the programme you want to cancel, then press ℍ.	
	4 Press �/⅌ to select "Cancel Timer", then press ⊕.	
	A display appears to confirm that you want to cancel the programme.	
	5 Press ⇔/⇔ to select "Yes", then press ⊕ to confirm.	

Using the Digital Favourite List 138



Digital Favourite List

- **1** In digital mode, press \heartsuit .
- **2** Perform the desired operation as shown in the following table or displayed on the screen.

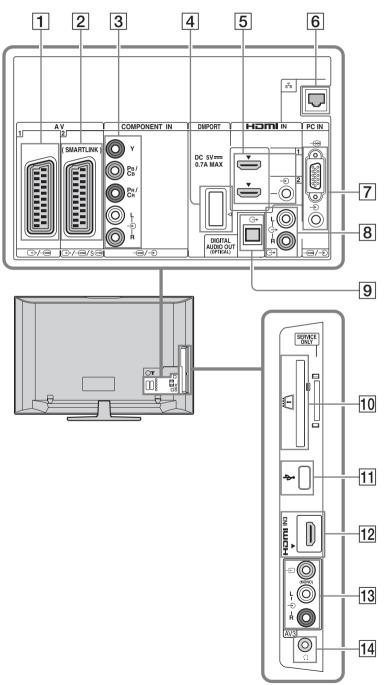
* This function may not be available in some countries/regions.

То	Do this
Create your Favourite list for the first time	 Press ⊕ to select "Yes." Press the yellow button to select the favourite list. Press ô/◊ to select the channel you want to add, then press ⊕. A ♡ symbol appears next to channels that you have stored in the favourite list.
Watch a channel	 Press yellow key to navigate through favourite lists. Press ❖/❖ to select the channel, then press ⊕.
Turn off the Favourite list	Press ETURN.
Add or remove channels in the currently edited Favourite list	 Press the blue button. Press the yellow button to choose the list you want to edit. Press ♦/∜/♦/⇒ to select the channel you want to add or remove, then press ⊕.
Remove all channels from the current Favourite list	 Press the blue button. Press the yellow button to select the favourite list you want to edit. Press the blue button. Press ⇔/⇔ to select "Yes", then press ⊕ to confirm.

Using Optional Equipment

Connecting Chart

You can connect a wide range of optional equipment to your TV. Connecting cables are not supplied.



Connect to	Input symbol on screen	Description
1	Ð AV1	When you connect a decoder, the TV tuner outputs scrambled signals to the decoder, and the decoder unscrambles the signals before outputting them.
② → /→∞/ S-∞ AV2 (SMARTLINK)	Ð AV2	SmartLink is a direct link between the TV and a VCR/DVD recorder.
3 →∞/→ COMPONENT IN	⊕ Component	The component video sockets support the following video inputs only: 480i, 480p, 576i, 576p, 720p, 1080i and 1080p.
4 DMPORT	DMPORT	You can play audio or video (optional cable required) of a portable audio player that is connected to the TV using a DIGITAL MEDIA PORT (DMPORT) adaptor. Depending on the connected DIGITAL MEDIA PORT adaptor, you can operate the connected equipment using the TV as follows; - Using the remote of the TV: ►/■/■/●/◇/◇/◇/◇/◇/◇/···· RETURN. - Using the Options menu function: Press OPTIONS, and select "Control Panel" or "Device Control (Menu)."
		 Do not connect or disconnect a DIGITAL MEDIA PORT adapter while the TV is turned on. The connected equipment is not charged when the TV is turned off or in standby mode.
5 HDMI IN 1 or 2 12 HDMI 3	Ð HDMI 1 or Ð HDMI 3	Digital video and audio signals are input from the connected equipment. In addition, when you connect the equipment that is compatible with control for HDMI, communication with the connected equipment is supported. Refer to page 41 to set up this communication. If the equipment has a DVI socket, connect the DVI socket to the HDMI IN socket through a DVI-HDMI adaptor interface (not supplied), and connect the equipment's audio out socket to the audio in HDMI IN socket. • The HDMI sockets support the following video inputs only: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p and 1080/24p. For PC video inputs, see page 50. • Be sure to use only an authorised HDMI cable bearing the HDMI logo. We recommend that you use a Sony HDMI cable (high speed type). • When connecting an audio system that is compatible with control for HDMI, be sure to also connect it to the DIGITAL AUDIO OUT (OPTICAL) socket.
6 器LAN		You can enjoy contents stored on DLNA-compatible devices via a network (page 30).
7 →∞/→ PC IN	PC	It is recommended to use a PC cable with ferrites, such as the "Connector, D-sub 15" (ref. 1-793-504-11, available in Sony Service Centre) or equivalent.
8 C+ L-C+-R		Connect to the audio output sockets — to listen to the sound from the TV on Hi-Fi audio equipment.
9 O- DIGITAL AUDIO OUT (OPTICAL)		Use an optical audio cable.

Connect to	Input symbol on screen	Description
(Conditional Access Module)		To use Pay Per View services. For details, refer to the instruction manual supplied with your CAM. To use the CAM, remove the "dummy" card from the CAM slot, then turn off the TV and insert your CAM card into the slot. When you are not using the CAM, we recommend that you keep the "dummy" card in the CAM slot. • CAM is not supported in all countries. Please check with your authorised dealer.
11 ∻USB		You can enjoy photo/music files stored in a Sony digital still camera or camcorder through a USB cable or USB storage device on your TV (page 26).
13 → /L- (→ -R AV3	⊕ AV3	When connecting mono equipment, connect to the → AV3 L socket.
14 \(\text{Headphones} \)		You can listen to TV sound through headphones.

Viewing Pictures from Connected Equipment

Switch on the connected equipment, then perform one of the following operation.

For equipment connected to the scart sockets using a fully-wired 21-pin scart lead

Start playback on the connected equipment. The picture from the connected equipment appears on the screen.

For an auto-tuned VCR/ DVD recorder

In analogue mode, press **PROG +/-**, or the number buttons, to select the video channel.

For a USB device

See page 26.

For a Network device

See page 30.

For other connected equipment

Press \oplus / \oplus to display a list of connected equipment. Press \oplus / \oplus to select the desired input source, then press \oplus .

The highlighted item is automatically selected if you do not perform any operation for two seconds after pressing Ω/Φ .

If you have set an input source to "Skip" in the "AV Preset" menu (page 40), that input source does not appear in the list.



 To return to normal TV mode, press DIGITAL or ANALOG.

Using the Options menu

Press **OPTIONS** to display the following options when viewing pictures from connected equipment.

Option	Description
Picture Mode (except PC input mode)	See page 35.
Display Mode (in PC input mode only)	See page 35.
Sound Mode	See page 36.
Surround	See page 36.
Speaker	See page 41.
Motionflow	See page 37.

Option	Description
PIP (in PC input mode only)	See page 26.
PAP (except PC input mode and DIGITAL MEDIA PORT mode)	See page 25.
Auto Adjustment (in PC input mode only)	See page 39.
Horizontal Shift (in PC input mode only)	See page 39.
Sleep Timer (except PC input mode)	See page 38.
Power Saving	See page 37.
Device Control (Menu) (in DIGITAL MEDIA PORT mode only)	See page 23.
Control Panel (in DIGITAL MEDIA PORT mode only)	See page 23.
Device Control (in HDMI mode only)	See page 29.

To view two pictures simultaneously – PAP (Picture and Picture)

You can view two pictures (external input and TV programme) on the screen simultaneously. Connect an optional equipment (page 22), and make sure that images from the equipment appear on the screen (page 25).



- This function is not available for a PC input and DIGITAL MEDIA PORT input.
- You cannot change the size of the pictures.
- You cannot display analogue TV video in the TV programme picture while displaying AV1, AV2 or AV3 video in the external inputs picture.

1 Press **OPTIONS**.

2 Press �/� to select "PAP", then press ⊕.

The picture from the connected equipment

is displayed on the left, and the TV programme is displayed on the right.

3 Press the number buttons or PROG +/- to select the TV channel.

To return to single picture mode Press - RETURN.



• The highlighted picture is audible. You can switch the audible picture by pressing ♦/♦.

To view two pictures simultaneously – PIP (Picture in Picture)

You can view two pictures (PC input and TV programme) on the screen simultaneously. Connect a PC (page 22), and make sure that image from a PC appears on the screen.

- **1** Press **OPTIONS** to display the Options menu.
- 2 Press �/� to select "PIP", then press ⊕.

 The picture from the connected PC is displayed in full size, and the TV programme is displayed in the small screen.
 - You can use $2/\sqrt[4]{4}$ to move the TV programme screen position.
- 3 Press number buttons or PROG +/- to select the TV channel.

To return to single picture mode Press : RETURN.



• You can switch the audible picture by selecting "Audio Swap" from the Options menu.

Playing Back Photo/Music via USB

You can enjoy photo/music files stored in a Sony digital still camera or camcorder through a USB cable or USB storage media on your TV.

- **1** Connect a supported USB device to the TV.
- 2 Press HOME.
- **3** Press ⇔/\$ to select "Photo" or "Music."
- **4** Press �/❖ to select a USB device, then press ⊕.

In "Music", "List View" appears. In "Photo", "Thumbnail View" appears.
Press the yellow button to switch between "List View" and "Thumbnail View."

5 Press �/∜/�/� to select a file or folder, then press ⊕.

When you select a folder, select a file, then press ⊕. Playback starts.

Photo Playback Auto Start

The TV automatically starts photo playback when the TV is turned on and a digital still camera or other device storing photo files is connected to the USB port and then turned on (page 37).

(Photo) Available Options

Option	Description
Picture Mode	See page 35.
Sound Mode	See page 36.
Surround	See page 36.
Cropping	Crops a photograph.
Display map	Displays a map of the location where a photo was shot along with the photo itself.
Show Options	Allows you to set repeat/ shuffle for photo playback.
Photo Set-up	Sets how playback should be performed and what effects to use during slideshows.
Rotate and Save	Rotates and saves unprotected files.

Option	Description
Speaker	See page 41.
Picture Frame Image	Allows you to select a photograph to be displayed as picture frame.
Information	Displays information about the device, folders, and files.

☐ (Music) Available Options

Option	Description
Sound Mode	See page 36.
Surround	See page 36.
Add to Slideshow	Registers the background music to be played during a slideshow using (Photo).
Omit from Slideshow	Cancels the registered background music.
Playback Options	Allows music options to be set for repeat, shuffle, or regular playback.
Speaker	See page 41.
Information	Displays information about the device, folders, and files.



- Picture quality may appear coarse when using (Photo) because images may be enlarged depending on the file. Also, images may not fill the entire screen depending on the image size and aspect ratio.
- Some photo files may take some time to be displayed when using (Photo).
- The file name and folder name support only English.
- While the TV is accessing the data on the USB device, observe the following:
- Do not turn off the TV or connected USB device.
- Do not disconnect the USB cable.
- Do not remove the USB device.

The data on the USB device may be damaged.

- Sony will not be held liable for any damage to, or loss of, data on the recording media due to a malfunction of any connected devices or the TV.
- Playback does not start automatically if the TV is turned on after connecting the digital still camera or other device to the USB port.
- USB playback is supported for the following photo file formats:
 - JPEG (JPEG format files with the extension ".jpg" and conforming to DCF or Exif)

- RAW (ARW/ARW 2.0 format files with this extension ".arw.") For preview only.
- When you connect a Sony digital still camera, set the camera's USB connection mode to Auto or Mass Storage. For more information about USB connection mode, refer to the instructions supplied with your digital camera.
- USB playback is supported for the following music file formats:
 - MP3 (files with the extension ".mp3" that have not been copyrighted)
- USB Photo Viewer supports FAT12, FAT16 and FAT32 file systems.
- Depending on the exact file specifications, some files, including those modified on a PC, cannot be played even if the file format is supported.
- Check the website below for updated information about compatible USB devices.
 http://support.sony-europe.com/TV/compatibility/

To display a photograph — Picture Frame

You can display a photograph on the screen for a selected period of time. After that period, the TV automatically switches itself into standby mode.

1 Select a photograph.

You can select a photograph from the connected USB device or preset picture folder. For details on selecting a photograph, see page 26.

- 2 Press **OPTIONS** while the selected photograph is displayed, then press �/� to select "Picture Frame Image" and press ⊕.
- 3 Press **☐ RETURN** repeatedly to return to the Home menu.
- **4** Press ⇔/⇔ to select "Photo", then select "Picture Frame" and press ⊕.

The TV is switched to Picture Frame mode, and the selected photograph is displayed on the screen.

To set the duration of displaying a photograph

Press **OPTIONS**, then select "Duration" and press \oplus . Then, select the duration, and press \oplus .

The counter appears on the screen.

To return to the XMB™
Press • RETURN.



- If the photograph is selected from a USB device, it must remain connected to the TV.
- If "Sleep Timer" is activated, the TV automatically will switch into standby mode.

To display a photograph with the location on the map

When using an image capture device with GPS function (digital still camera, etc.), it is possible to display a photograph with a map of the location where the photograph was taken using a function of GPS for recording longitude and latitude. Because map information is downloaded from the Internet online map service, the network connection must be required and the TV has to be connected to the network (page 30).

- **1** Select a photograph (page 26).
- **2** Press the green/red buttons to zoom in/out on the map.

To change the display position of the map on the TV screen, press the blue button repeatedly.



- Because the Internet online map service is provided by a third party, service may be changed or terminated without prior notification to the user.
- The position indicated on the map may differ depending on the image capture device.
- Only a large-scale map that cannot be zoomed in or out is displayed if the TV is not connected to the Internet or the Internet online map service is terminated.
- You can also display a slideshow with the location on the map. Set "Photo Set-up" to "Simple with map" (page 26).



- A map can be displayed in the case of photograph's EXIF data includes a date information, and the associated longitude and latitude information ("Log files") has been recorded using a Sony GPS unit. Follow the procedure described below.
- **1** Connect the GPS unit to the USB port.
- 2 Press HOME.
- **3** Press *♦*/*♦* to select "Photo."
- 4 Press �/∜ to select the GPS unit, then press ⊕.

- Select "Load GPS log files", then press
 ...
- **6** Select the following items using ⋄/⋄ and press ⊕, then press ⋄/⋄ to set.
 - -Time Zone
 - -DST
- **7** Select "OK", then press ⊕.
 - The GPS log files are loaded.
- **8** Disconnect the GPS unit and connect the device on which the photograph is stored.
- **9** Select a photograph (page 26).
- **10** Press the green/red buttons to zoom in/out on the map.

Using BRAVIA Sync with Control for HDMI

The control for HDMI function enables the TV to communicate with the connected equipment that is compatible with the function, using HDMI CEC (Consumer Electronics Control). For example, by connecting Sony equipment that is compatible with control for HDMI (with HDMI cables), you can control them together.

Be sure to connect the equipment correctly, and make the necessary settings.

Control for HDMI

- Automatically turns the connected equipment off when you switch the TV to standby mode using the remote.
- Automatically turns the TV on and switches the input to the connected equipment when the equipment starts to play.
- If you turn on a connected audio system while the TV is on, the sound output switches from the TV speaker to the audio system.
- Adjusts the volume (∠ +/-) and mutes the sound (□¾) of a connected audio system.
- You can operate the connected Sony equipment that has the BRAVIA Sync logo by the TV remote by pressing:
 - ►/II/II/II/II to operate the connected equipment directly.
 - SYNC MENU to display the menu of the connected HDMI equipment on the screen.
 After displaying the menu, you can operate the menu screen by using \(\delta\frac{1}{2}\rightarrow\frac{1}{2}\righta
 - OPTIONS to display "Device Control", then select options from "Menu", "Options", and "Content List" to operate the equipment.
 - Refer to the instruction manual of the equipment for available control.

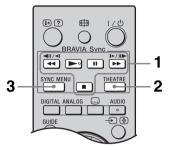
To connect the equipment that is compatible with control for HDMI

Connect the compatible equipment and the TV with an HDMI cable. When connecting an audio system, be sure to also connect the DIGITAL AUDIO OUT (OPTICAL) socket of the TV and the audio system using an optical audio cable. For details, see page 23.

To make the control for HDMI settings

The control for HDMI settings must be set on both the TV side and connected equipment side. See "HDMI Set-up" on page 41 for the TV side settings. For settings on the connected equipment, refer to the operating instructions for that equipment.

Buttons for using optional equipment



1 ◀◀/▶/II/▶▶/■: You can operate the BRAVIA Sync-compatible equipment that is connected to the TV.

2 THEATRE

You can set Theatre Mode on or off. When Theatre Mode is set to on, the optimum audio output (if the TV is connected with an audio system using an HDMI cable) and picture quality for film-based contents are automatically set.



- If you turn the TV off, Theatre Mode is also turned off.
- **3 SYNC MENU:** Displays the menu of connected HDMI equipment. While viewing other input screens or TV programmes, "HDMI Device Selection" is displayed when the button is pressed.



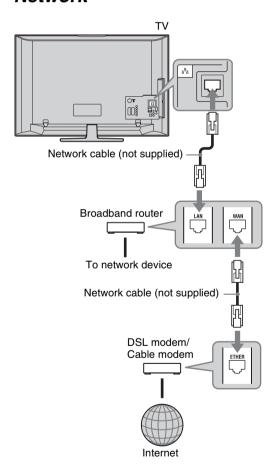
 Control for HDMI (BRAVIA Sync) is only available with the connected Sony equipment that has the BRAVIA Sync logo or is compatible with control for HDMI.

Using Network Features

With this TV, you can enjoy contents stored on DLNA-compatible devices on the home network.

Devices that store and provide contents, such as photo/music files, is called "server." The TV receives the photo/music files from the server via the network, and you can enjoy them on the TV even in other rooms. To enjoy the home network, a DLNA-compatible device (VAIO, Cyber-shot, etc.) is necessary as a server.

Connecting the TV to the Network



Enjoying Photo/Music Files via the Network

You can enjoy photo/music files on the server easily by selecting an icon on the Home menu of the TV.

- 1 Press HOME.
- **2** Press ⇔/⇔ to select "Photo" or "Music."
- 3 Press �/∜ to select a server, then press ⊕.

 In "Music", "List View" appears. In
 "Photo", "Thumbnail View" appears.

 Press the yellow button to switch between
 "List View" and "Thumbnail View."

If network devices do not appear, follow the steps on page 32.

4 Press �/∜/⇔/⇔ to select a file or folder, then press ⊕.

When you select a folder, select a file, then press ⊕. Playback starts.



• A map can be displayed with a photograph in the case of longitude and latitude information has been recorded to photograph's EXIF data (page 28).



- Depending on the network device, it may be necessary to register the TV with the network device.
- Picture quality may appear coarse when using (Photo) because images may be enlarged depending on the file. Also, images may not fill the entire screen depending on the image size and aspect ratio.
- Some photo files may take some time to be displayed when using (Photo).
- The file name and folder name support only English.
- To play the files which are received from a network device, they need to have one of the following file formats.
 - Still images: JPEG format
- Music: MP3 format or linear PCM format
 Depending on the network device, the file format may be converted before transfer. In such cases, the file format resulting after conversion is used for playback. For details, see the instruction

manual for the network device being used. Even files conforming to one of the file formats given above cannot be played in some cases.

To enjoy photographs and music on the TV screen by operating other device

- Renderer

"Renderer" is a feature for playing photo files and music files stored in other network devices (digital still camera, mobile phone, etc.) on the TV by operating the controller device in question. To use this feature, a renderer-compatible device such as a digital still camera or mobile phone is required as the controller. Refer as well to the instruction manual supplied with the controller.

- 1 Set "Renderer Function", "Renderer Access Control" and "Renderer Set-up" in "Network Settings" if necessary (page 46).
- **2** Play the file selected using the controller on the TV.

The file is played on the TV over the connected network.
Use the controller or the TV's remote to perform operations during playback.

(Photo) Available Options

Option	Description
Picture Mode	See page 35.
Sound Mode	See page 36.
Surround	See page 36.
Cropping	Crops a photograph.
Display map	Displays a map of the location where a photo was shot along with the photo itself.
Show Options	Allows you to set repeat/ shuffle for photo playback.
Photo Set-up	Sets how playback should be performed and what effects to use during slideshows.
Rotate	Rotates files.
Speaker	See page 41.
Information	Displays information about the device, folders, and files.

Option	Description
Sound Mode	See page 36.
Surround	See page 36.
Add to Slideshow	Registers the background music to be played during a slideshow using (Photo).
Omit from Slideshow	Cancels the registered background music.
Playback Options	Allows music options to be set for repeat, shuffle, or regular playback.
Speaker	See page 41.
Information	Displays information about the device, folders, and files.

Checking the Network Connection

If your home network has a DHCP server, this step can be skipped.

Enter the respective (alphanumeric) values for your router. The items that need to be set may differ, depending on the Internet service provider or the router. For details, refer to the instruction manuals that have been provided by your Internet service provider or supplied with the router.

- 1 Press HOME.
- **2** Press ♦/\$ to select "Settings."
- **3** Press �/� to select "Network Settings", then press ⊕.
- **4** Select "Network", then press \oplus .
- **5** Select "IP Address Settings", then press \oplus .
- **6** Select an item, and press ⊕.

When you select "DHCP (DNS automatic)"

Go to step 7.

When you select "DHCP (DNS manual)"

Set "Primary DNS"/"Secondary DNS" using �/∜/\$ and the number buttons.

When you select "Manual"

Set the following items using $\lozenge/\lozenge/\diamondsuit$ and the number buttons.

- IP Address
- · Subnet Mask
- · Default Gateway
- Primary DNS/Secondary DNS

If your ISP has a specific proxy server setting

Press **OPTIONS**, then press $\diamondsuit / \diamondsuit$ to select "Proxy Set-up" and press \oplus . Then enter the settings.

- **7** Press (+).
- **8** Press �/♥ to select "Test", then press ⊕.
- **9** Press ⇔/⇔ to select "Yes", then press ⊕.

The network diagnostic starts.

When the message "Connection

When the message "Connection successful." appears, press — RETURN repeatedly to exit.



 If "Connection successful." does not appear, see "Troubleshooting" on page 51 and check the connections and settings.

Adjusting the Server Display Settings

You can select home network servers to be displayed on the Home menu. Up to 10 servers can be displayed on the Home menu automatically.

1 Set the server to allow connections from the TV.

For details on settings on the server, refer to the Operating Instructions supplied with the server.

- 2 Press HOME.
- **3** Press ♦/\$ to select "Settings."
- **4** Press �/❖ to select "Network Settings", then press ⊕.
- 5 Select "Server Display Settings", then press ⊕.
- 6 Select the server you want to display on the Home menu, then press ⊕.
- **7** Select "Yes", then press ⊕.

To set the server not to be displayed on the Home menu

In step 7, press \lozenge/\lozenge to select "No", then press \oplus .

Available Options (on the connected server settings display)

Option	Description
Delete All	Deletes all connected servers.
Update List	Updates the server list to the latest information.
Information	Displays information about the connected server currently selected.
Delete	Deletes the connected server currently selected.

If you cannot connect to your home network

The TV can check if the server is being correctly recognised.

- 1 Press HOME.
- **2** Press ⇔/⇔ to select "Settings."
- **3** Press �/♥ to select "Network Settings", then press ⊕.
- 4 Select "Server Diagnostics", then press \oplus .
- Select "Yes", then press ⊕.
 The server diagnostic starts.
 When the server diagnostic is complete, the diagnostic result list appears.
- **6** Select the server you want to confirm, then press ⊕.

The diagnostic results of the selected server appear.

If the diagnostic results indicate a failure, look up the possible causes and what to do, and check connections and settings. For details, see "Troubleshooting" on page 51.

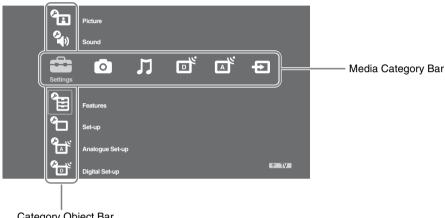
Using MENU Functions

Navigating through TV Home Menu (XMB™)

The XMB™ (XrossMediaBar) is a menu of BRAVIA features and input sources displayed on the TV screen. The XMB™ is an easy way to select programming and adjust settings on your BRAVIA TV.

1 Press HOME.

The TV Home menu appears on the screen.



Category Object Bar

2 Press ⇔/⇔ to select the category.

Media category icon		Description
	Settings	You can make advanced settings and adjustments. For details about settings, see page 35.
0	Photo	You can enjoy photo files via USB devices or the network (page 26, 30).
IJ	Music	You can enjoy music files via USB devices or the network (page 26, 30).
D"	Digital	You can select a digital channel, favourite list (page 21), or Guide (page 17, 20). You can also select a channel using the number buttons or PROG +/- .
A	Analogue	You can select an analogue channel. You can also select a channel using the number buttons or PROG +/- . To hide the list of analogue channels, set "Programme List Display" to "Off" (page 42).
Ð	External Inputs	You can select equipment connected to the TV. To assign a label to an external input, see "AV Preset" (page 40).

- **3** Press �/♥ to select the item, then press ⊕.
- **4** Follow the instructions on the screen.
- **5** Press **HOME** to exit.



- The options you can adjust vary depending on the situation.
- Unavailable options are greyed out or not displayed.





Picture Mode	Selects the picture mode except for PC input source. "Picture Mode" includes options best suited for video and photographs, respectively. The options that can be selected differ depending on the input source.		
	Vivid	For enhanced picture contrast and sharpness.	
	Standard	For standard picture. Recommended for home entertainment.	
	Cinema	For viewing film-based content. Most suitable for viewing in a theatre-like environment.	
	Photo-Vivid	For viewing photographs. Enhances picture contrast and sharpness.	
	Photo-Standard	For viewing photographs. Provides the optimum picture quality for viewing in the home.	
	Photo-Original	For viewing photographs. Represents the picture quality used when imaging developed photographs.	
Display Mode (only in	Selects the display r	mode for PC input source.	
PC Input/ HDMI PC	Video	For video images.	
Input)	Text	For text, charts or tables.	
Reset	Resets all picture settings except "Picture Mode" and "Display Mode" (only in PC mode) to the factory settings.		
Backlight	Adjusts the brightness of the backlight.		
Contrast	Increases or decreases picture contrast.		
Brightness	Brightens or darkens the picture.		
Colour	Increases or decreases colour intensity.		
Hue	Increases or decreases the green and red tones. """ """ "" """ "" "" "" "" "		
Colour Temperature	Adjusts the whiteness of the picture.		
	Cool	Gives the white colours a blue tint.	
	Neutral	Gives the white colours a neutral tint.	
	Warm 1/Warm 2	Gives white colours a red tint. "Warm 2" gives a redder tint than "Warm 1."	
	• "Warm 1" and "Warm 2" are not available when "Picture Mode" is set to "Vivid" (or "Photo-Vivid").		
Sharpness	Sharpens or softens	the picture.	
Noise Reduction	Reduces the picture noise (snowy picture) in a weak broadcast signal.		
	Auto	Automatically reduces the picture noise (in analogue mode only).	
	High/Medium/ Low	Modifies the effect of the noise reduction.	
	Off	Turns off the "Noise Reduction" feature.	
MPEG Noise Reduction	Reduces picture noi viewing a DVD or o	se in MPEG-compressed videos. This is effective when ligital broadcast.	

Advanced Settings	Allows you to set "Picture" settings in more detail. These settings are not available when "Picture Mode" is set to "Vivid" (or "Photo-Vivid").	
	Adv. Contrast Enhancer	Automatically adjusts "Backlight" and "Contrast" to the most suitable settings judging from the brightness of the screen. This setting is especially effective for dark images scenes. It will increase the contrast distinction of the darker picture scenes.
	Live Colour	Makes colours more vivid.
	Colour Space	Changes the colour reproduction gamut. "Wide" reproduces the vivid colour and "Standard" reproduces the standard colour.
	• "Live Colour" is	not available when "Colour Space" is set to "Standard."

[&]quot;Noise Reduction", "MPEG Noise Reduction" and "Advanced Settings" are not available for PC.

Sound Mode	Selects the sound m	Selects the sound mode.	
	Dynamic	Enhances the treble and bass sounds.	
	Standard	For standard sounds.	
	Clear Voice	Makes voice sound clearer.	
Reset	Resets all the sound settings to the factory settings excluding "Dual Sound."		
Treble	Adjusts higher-pitc	Adjusts higher-pitched sounds.	
Bass	Adjusts lower-pitched sounds.		
Balance	Emphasises left or right speaker balance.		
Auto Volume	Keeps a constant volume level even when volume level gaps occur (e.g., adverts tend to be louder than programmes).		
Volume Offset	Adjusts the volume level of the current input relative to other inputs.		
Surround	S-FORCE Front Surround	Provides a virtual surround sound experience made possible using just two front speakers.	
	Off	Selects for normal stereo or mono reception.	
Voice Zoom	Adjusts the sound level of human voices. For example, if the voice of a news announcer is indistinct, you can turn up this setting to make the voice louder. Conversely, if you are watching a sports programme, you can turn down this setting to soften the voice of the commentator.		
Sound Booster	Produces a fuller sound for more impact, by emphasizing the treble and bass sounds.		
Dual Sound	Selects the sound from the speaker for a stereo or bilingual broadcast.		
	Stereo/Mono	For a stereo broadcast.	
	A/B/Mono	For a bilingual broadcast, select "A" for sound channel 1, "B" for sound channel 2, or "Mono" for a mono channel, if available.	
	• If you select other "A" or "B."	equipment connected to the TV, set "Dual Sound" to "Stereo",	



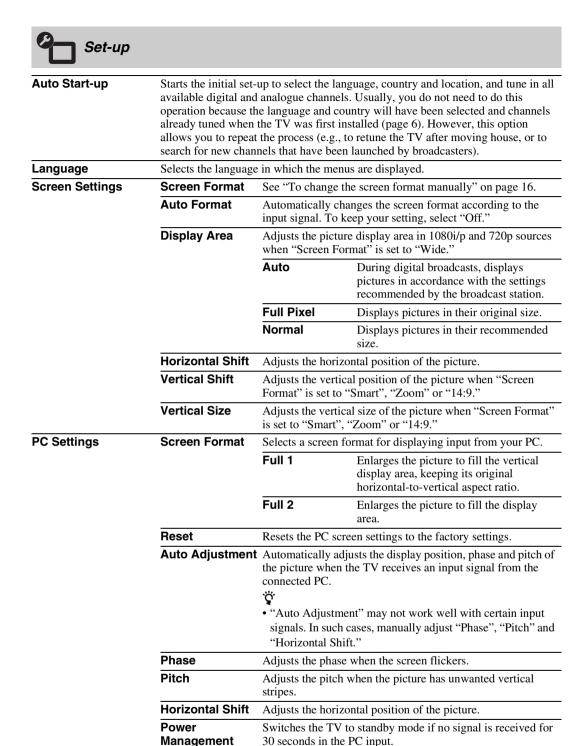
^{• &}quot;Treble", "Bass", "Balance" and "Auto Volume" are not available when "Speaker" is set to "Audio System" and headphones are connected.



E realares					
USB Auto Start		s photo playback when the TV is turned on and a digital still ice storing photo files is connected to the USB port and then			
		start automatically if the TV is turned on after connecting the a or other device to the USB port.			
	Slideshow	Select to view JPEG files as a slideshow.			
	Thumbnail View	Select to view JPEG files as a thumbnail.			
	Off	Select to disable this function.			
Quick Start		ster than usual within two hours after switching to standby wer consumption in standby mode is 20 Watt higher than			
Power Saving	"Picture Off" is sele	aving mode to reduce the power consumption of the TV. When ected, the picture is switched off and the (Picture Off) front panel lights up in green. The sound remains unchanged.			
	Standard Power	Default settings.			
	Reduced Power	Reduces the power consumption of the TV.			
	Picture Off	Switches off the picture. You can listen to the sound with the picture off.			
Light Sensor	On	Automatically optimises the picture settings according to the ambient light in the room.			
	Off	Turns off the "Light Sensor" feature.			
		anything over the sensor, as its function may be affected. See eation of the light sensor.			
Logo Illumination	Lights up and turns	off the Sony logo on the front of the TV.			
Motionflow	Provides smoother picture movement and reduces picture blur.				
	High	Provides smoother picture movement such as for film-based contents.			
	Standard	Provides smooth picture movement. Use this setting for standard use.			
	Off	Use this setting when the "High" and "Standard" settings result in noise.			
	• Depending on the video, you may not see the effect visually, even if you have changed the setting.				
Film Mode		Provides an improved picture quality which is optimised for film when playing DVD images taken on film.			
	Auto 1/Auto 2	"Auto 1" provides smoother picture movement than the original film-based content. "Auto 2" provides the original film-based content as is.			
	Off	Turns off the "Film Mode" feature.			
	• If the image conta	ins irregular signals or too much noise, "Film Mode" will be ed off even if "Auto 1"/"Auto 2" is selected.			
	• "Film Mode" is not available when "Video/Photo" is set to "Photo" or when				

photograph is detected if "Video-A" is set.

Game/Text Mode		num screen for viewing images with fine lines and characters that leo game equipment and PCs. Set to "On" for the sharp display of acters.			
Video/Photo	Provides suitable image quality by selecting the option depending on the input source (video or photograph data).				
	Video-A	video data or pho	age quality, depending on the input source, otograph data when directly connecting Sony pable equipment that supports "Video-A"		
	Video	Produces suitabl	e image quality for moving pictures.		
	Photo	Produces suitabl	e image quality for still images.		
		ked to "Video" when ment, even if "Video"	n "Video-A" mode is not supported on the o-A" is selected.		
	 Only available for 1080p. 	or HDMI 1, HDMI 2	2, HDMI 3 and Component in format 1080i		
x.v.Colour	the colour space of		faithful to the original source by matching		
	• The setting is fixed to "Normal" when the input signal is HDMI (RGB), even if "x.v.Colour" is selected.				
	• Only available for HDMI 1, HDMI 2, HDMI 3 and Component in format 720p, 1080i or 1080p.				
Photo Colour Space	Selects the option (sRGB, sYCC, Adobe RGB) to match the output colour space within the output signal from the equipment connected to the HDMI, component input jacks or USB.				
	 Select "sYCC" when using the equipment that supports "x.v.Colour." Only available for HDMI 1, HDMI 2, HDMI 3 and Component in format 1080i 				
	or 1080p.				
	• Not available when "Colour Space" is set to "Wide" (page 36).				
Timer Settings	Sets the timer to t				
	Sleep Timer	Sets a period of time after which the TV automatically switches itself into standby mode. When the "Sleep Timer" is activated, the (4) (Timer) indicator on the TV front panel lights up in orange.			
		If you switch off the TV and switch it on again, "Sleep			
		Timer" is reset			
			message appears on the screen one minute switches to standby mode.		
	On Timer Settings	On Timer	Sets the timer to turn on the TV from standby mode.		
		Timer Mode	Sets the desired day(s) of the week you want the timer to turn on the TV.		
		Time	Sets the time to turn on the TV.		
		Duration	Sets how long you want the TV to stay on before switching to standby mode again.		
	Clock Set	receiving digital	ljust the clock manually. When the TV is channels, the clock cannot be adjusted t is set to the time code of the broadcasted		



AV Preset	Assigns a name to any equipment connected to the side and rear sockets. The name will be displayed briefly on the screen when the equipment is selected. You can skip an input source that is not connected to any equipment. 1 Press �/♥ to select the desired input source, then press ⊕. 2 Press �/♥ to select the desired option below, then press ⊕. -, CABLE, SAT, Uses one of the preset labels to assign a name to connected equipment. GAME, AUDIO SYSTEM, CAM, PC		
	Edit	Creates your own label. 1 Press �/� to select the desired letter or number ("_" for a blank space), then press ❖.	
	If you input a wrong character Press \$\diangle \rangle \rightarrow\$ to select the wrong character. Then, press \$\diangle \rangle \rightarrow\$ to select the correct character.		
	2 Repeat the procedure in step 1 until the name is completed.		
	-	3 Select "OK", then press ⊕.	
	Skip Skips an input source that is not connected to any equipment when press �/♥ to select the input source		
AV2 Input		input through the socket labelled 🌖 / on the rear of the TV.	
	Auto	Switches automatically among the signals of RGB input, S Video input, Composite video input depending on the input signal.	
	RGB	Inputs the RGB signal.	
	S Video	Inputs the S Video signal.	
	Composite	Inputs the Composite video signal.	
AV2 Output	→ S→ AV2 of VCR/DVD record connections	Sets a signal to be output through the socket labelled // / / / / AV2 on the rear of the TV. If you connect a VCR/DVD recorder or other recording equipment to the /- / AV2 socket, you can then record from the equipment connected to other sockets of the TV.	
	TV	Outputs a broadcast.	
	Auto	Outputs whatever is being viewed on the screen (except signals from the HDMI I, HDMI IN 2, HDMI IN 3,	

AV Set-up

	Speaker	Turns on/off the T	We internal engalers		
	Ореалеі	TV Speaker	V's internal speakers. The TV speakers are turned on in order to listen to the TV's sound through the TV speakers.		
		Audio System	The TV speakers are turned off in order to listen to the TV's sound only through your external audio equipment connected to the audio output sockets. When connected with "Control for HDMI" compatible equipment, you can turn the connected equipment on interlocked with the TV. This setting must be made after connecting the equipment.		
	Audio Out	Variable	The audio output from your audio system can be controlled by the TV's remote.		
	u.	Fixed	The audio output of the TV is fixed. Use your audio receiver's volume control to adjust the volume (and other audio settings) through your audio system.		
	"Audio Out" is not available for audio system cHDMI sockets.				
HDMI Set-up	This is used to set the "Control for HDMI" compatible equipment connected to the HDMI sockets. Note that the interlock setting must also be made on the connected "Control for HDMI" compatible equipment side.				
	Control for HDMI	I This sets whether to interlock the "Control for HDMI" compatible equipment and the TV. When set to "On", the following menu items can be performed. However, power consumption in standby mode is higher than usual. If the specific Sony equipment that is compatible with "Control fo HDMI" is connected, this setting is applied to the connected equipment automatically when the "Control for HDMI" is set to "On" using the TV.			
	Auto Devices Off	When this is set to "On", the "Control for HDMI" compatil equipment turns off when you switch the TV to standby mousing the remote.			
	Auto TV On	When this is set to "On" and if the connected "Control for HDMI" compatible equipment is turned on, the TV automatically turns on, and the displays the HDMI input from the connected equipment.			
	Tuner Box Control		d", you can select a channel tuned by ent using the TV's remote.		
	Device List Update	Creates or updates the "HDMI Device List." Up to 14 "Control for HDMI" compatible equipment can be connected, and up to 4 equipment can be connected to a single socket. Be sure to update the "HDMI Device List" when you change the "Control for HDMI" compatible equipment connections or settings. Select them manually on by one until getting a correct picture for several seconds.			
	HDMI Device List	Displays the connequipment.	ected "Control for HDMI" compatible		
		are linked to the	"Control for HDMI" if the TV operations operations of an audio system that is control for HDMI.		
Product Information	Displays your TV's	product information	n.		

All Reset

Resets all settings to the factory settings and then displays the "Auto Start-up" screen.



- Be sure not to turn the TV off during this period (it takes about 30 seconds) or press any buttons.
- All settings, including digital favourite list, country, language, auto tuned channels, etc. will be reset.



Analogue Set-up

Programme List	Select "Off" to hide the list of analogue channels from the XMB TM
Display	(XrossMediaBar).
Auto Tuning	Tunes in all the available analogue channels.
	This option allows you to retune the TV after moving house, or to search for new channels that have been launched by broadcasters.
Programme Sorting	Changes the order in which the analogue channels are stored on the TV.
	1 Press �/♥ to select the channel you want to move to a new position, then press ⊕.
	2 Press �/� to select the new position for your channel, then press ⊕.

Manual Programme Preset

Before selecting "Label"/"AFT"/"Audio Filter"/"LNA"/"Skip"/"Decoder", press **PROG** +/- to select the programme number with the channel. You cannot select a programme number that is set to "Skip" (page 40).

System/Channel Presets programme channels manually.

- **1** Press �/� to select the programme number you want to manually tune (if tuning a VCR/ DVD recorder, select channel 00), then press ⊕.
- **2** Press �/♥ to select "System", then press ⊕.
- **3** Press �/� to select one of the following TV broadcast systems, then press ⊕.

B/G: For western European countries/regions

I: For the United Kingdom

D/K: For eastern European countries/regions **L:** For France

4 Press �/♥ to select "Channel", then press ⊕.

5 Press �/� to select "S" (for cable channels) or "C" (for terrestrial channels), then press \$\diamonds\$.



- "S" is not available when "United Kingdom" is selected for "Country" (page 6).
- **6** Tune the channels as follows:

If you do not know the channel number (frequency)

Press $^{\diamond}/^{\diamondsuit}$ to search for the next available channel. When a channel has been found, the search will stop. To continue searching, press $^{\diamond}/^{\diamondsuit}$.

If you know the channel number (frequency)

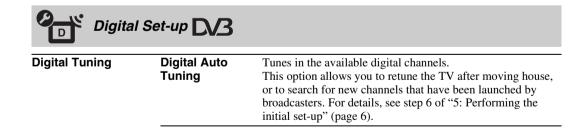
Press the number buttons to enter the channel number of the broadcast you want or your VCR/DVD recorder channel number.

Press

to jump to "Confirm", then press

Your changes have been saved. Repeat the above procedure to preset other channels manually.

Label	Assigns a name of your choice, up to five letters or numbers, to the selected channel. This name will be displayed briefly on the screen when the channel is selected. To input characters, follow steps 1 to 3 of "Edit" (page 40).
AFT	Allows you to fine-tune the selected programme number manually if you feel that a slight tuning adjustment will improve the picture quality. You can adjust the fine tuning over a range of -15 to +15. When "On" is selected, the fine tuning is performed automatically.
Audio Filter	Improves the sound for individual channels in the case of distortion in mono broadcasts. Sometimes a non-standard broadcast signal can cause sound distortion or intermittent sound muting when watching mono programmes. If you do not experience any sound distortion, we recommend that you leave this option set to the factory setting "Off."
	You cannot receive stereo or dual sound when "Low" or "High" is selected.
LNA	Improves the picture quality for individual channels in the case of very weak broadcast signals (noisy picture). If you cannot see any improvement in the picture quality even if you set to "On", set this option to "Off" (factory setting).
Skip	Skips unused analogue channels when you press PROG +/ — to select channels. (You can still select a skipped channel using the number buttons.)
Decoder	Shows and records the scrambled channel selected when using a decoder connected directly to scart connector /
	 Depending on the country selected for "Country" (page 6), this option may not be available.
Confirm	Saves changes made to the "Manual Programme Preset" settings.



	Programme Sorting	Removes any unwanted digital channels stored on the TV, and changes the order of the digital channels stored on the TV.				
		Press �/∜ to select the channel you want to remove or move to a new position.				
		You can also select a channel by pressing the number buttons to enter its three-digit channel number.				
		2 Remove or change the order of the digital channels as follows:				
		To remove the digital channel				
		Press ⊕. After a confirmation message appears, press ⇔ to select "Yes", then press ⊕.				
		To change the order of the digital channels				
		Press ♦, then press �/∜ to select the new position for the channel and press ♦.				
		3 Press ≅ RETURN .				
	Digital Manual Tuning	Tunes the digital channels manually. This feature is available when "Digital Auto Tuning" is set to "Antenna."				
		1 Press the number button to select the channel number you want to manually tune, then press �/∜ to tune the channel.				
		When the available channels are found, press �/∜ to select the channel you want to store, then press ⊕.				
		3 Press �/❖ to select the programme number where you want to store the new channel, then press ⊕.				
		Repeat the above procedure to manually tune other channels.				
Subtitle Set-up	Subtitle Setting	When "For Hard Of Hearing" is selected, some visual aids may also be displayed with the subtitles (if TV channels broadcast such information).				
	Subtitle Language	Allows you to select the language of the subtitles.				
Audio Set-up	Audio Type	Switches to broadcast for the hearing impaired when "For Hard Of Hearing" is selected.				
	Audio Language	Selects the language used for a programme. Some digital channels may broadcast several audio languages for a programme.				
	Audio Description	Provides audio description (narration) of visual information if TV channels broadcast such information.				
	Mixing Level*	Adjusts the TV main audio and Audio Description output levels.				
	Dynamic Range	Compensates for differences in the audio level between different channels. Note that this function may have no effect for some channels.				
	Optical Out	Selects the audio signal that is output from the DIGITAL AUDIO OUT (OPTICAL) terminal on the rear of the TV. Set to "Auto" when equipment compatible with Dolby Digital is connected, and set to "PCM" when non-compatible equipment is connected.				
	ૢ ૽ૼ					
	* This option is only a	available when "Audio Description" is set to "On."				
Radio Display		wallpaper when you listen to a radio broadcast. creen wallpaper colour, display a random colour or view a				
	slide show (page 26,	(, 30).				

Parental Lock	Cata an aga mastriatio	on for measurements. Any measurement that avoide the age				
Parental Lock						
	4	•				
	2 Press �/∜ to se then press ⊕.	elect the age restriction or "None" (for unrestricted watching),				
	3 Press ← RE 1	ETURN.				
PIN Code	To set your PIN f	or the first time				
	1 Press the numb	per buttons to enter the new PIN code.				
	3 Press □ RE1	Press === RETURN.				
	To change your F	PIN				
	_					
		per buttons to enter the new PIN code.				
	3 Press the numb 4 Press ← RE1					
	Ģ					
	• PIN code 9999 is a	always accepted.				
Technical Set-up	Auto Service Update	Enables the TV to detect and store new digital services as they become available.				
		• For the service update to be able to take place the TV set				
		should be left in standby mode from time to time.				
	System Update	Enables the TV to automatically receive software updates free through your existing aerial/cable (when issued). We recommend that you leave the setting to "On" at all times.				
		• For the software upgrade to be able to take place the TV set should be left in standby mode from time to time.				
	System	Displays the current software version and the signal level.				
	Information					
		for the first time ther buttons to enter the new PIN code. The pilot buttons to enter the PIN code entered in step 1. ETURN. PIN The pilot buttons to enter your existing PIN code. The buttons to enter the new PIN code. The buttons to enter the new PIN code entered in step 2. The buttons to enter the new PIN code entered in step 2. The buttons to enter the new PIN code entered in step 2. ETURN. Enables the TV to detect and store new digital services as they become available. For the service update to be able to take place the TV set should be left in standby mode from time to time. Enables the TV to automatically receive software updates free through your existing aerial/cable (when issued). We recommend that you leave the setting to "On" at all times. The profit has software upgrade to be able to take place the TV set should be left in standby mode from time to time. Displays the current software version and the signal level. The time is red (no signal) or amber (low signal), check the aerial/cable connection. Allows you to manually select the time zone you are in, if it is not the same as the default time zone setting for your country/region. Sets whether or not to automatically switch between summer time and winter time. On Automatically switches between summer time and winter time according to the calendar. Off The time is displayed according to the time difference set by "Time Zone." You can switch GUIDE (Sony Guide or GUIDE Plus+). If you change Sony Guide to GUIDE Plus+ programme, see E page 17.				
	Time Zone	 If signal bar is red (no signal) or amber (low signal), chec the aerial/cable connection. Allows you to manually select the time zone you are in, if it not the same as the default time zone setting for your countregion. 				
	Auto DST					
		time and winter time according to the				
		be watched after a PIN code is entered correctly. ber buttons to enter your existing PIN code. previously set a PIN, a PIN code entry screen appears. Fo so of "PIN Code" below. bleet the age restriction or "None" (for unrestricted watching the previously set a PIN, a PIN code entry screen appears. Fo so of "PIN Code" below. bleet the age restriction or "None" (for unrestricted watching the previously set a PIN, a PIN code. ber buttons to enter the new PIN code. ber buttons to enter the PIN code entered in step 1. FURN. PIN ber buttons to enter the new PIN code. ber buttons to enter the new PIN code entered in step 2. FURN. always accepted. Enables the TV to detect and store new digital services a they become available. For the service update to be able to take place the TV should be left in standby mode from time to time. Enables the TV to automatically receive software update free through your existing aerial/cable (when issued). We recommend that you leave the setting to "On" at all time For the software upgrade to be able to take place the TV should be left in standby mode from time to time. Displays the current software version and the signal leve For the software upgrade to be able to take place the TV should be left in standby mode from time to time. Displays the current software version and the signal leve For the software upgrade to be able to take place the TV should be left in standby mode from time to time. Displays the current software version and the signal leve For the software upgrade to be able to take place the TV should be left in standby mode from time to time. Displays the current software version and the signal leve For the software upgrade to be able to take place the TV should be left in standby mode from time to time. The time according to the displays of the aerial/cable connection. Automatically switches between sum time and winter time. On Automatically switches between sum time and winter time according to the calendar. Off The time is displayed accordin				
	Programme Guide (only when GUIDE	you change Sony Guide to GUIDE Plus+ programme, see page 17.				
	Plus+ is available)	in UK, Italy, France, Germany or Spain.you can receive digital broadcasting.when "Antenna" is selected in step 7 of "5: Performing				



Network Settings

•					
Network	IP Address Settings	DHCP (DNS automatic)	Automatically acquires the network settings through the Dynamic Host Configuration Protocol server function of the router or Internet service provider. Automatically acquires the network settings except for DNS server settings. You can manually set the DNS settings.		
		DHCP (DNS manual)			
		Manual	Allows you to set the network settings according to your network environment.		
	Test	Diagnoses whether the network is correctly connected			
	IP Address/ Subnet Mask/ Default Gateway/ Primary DNS/ Secondary DNS	You need to configure each item when "Manual" is selected in "IP Address Settings." When "DHCP (DNS manual)" is selected, be sure to enter "Primary DNS" and "Secondary DNS" server addresses manually.			
	MAC Address	Displays the MAC address, which is a fixed, globally unique identifier of the network device.			
Server Display Settings	Displays the connec display on the Home	cted server list and allows you to select the server you want to ne menu.			
Server Diagnostics	Diagnoses whether t	the TV can connec	t to each server on the home network.		
Renderer Function	Enables playback of the network, such as		n the TV through other control devices on era or mobile phone.		
Renderer Access Control	•	pecify the accessible controller to the TV. When this setting a playback photos or music on the TV using the controller.			
Renderer Set-up	Automatic Access Permission	•	ect whether to permit access to the TV en the network device accesses the TV for		
	Renderer Name	Allows you to set controller.	the name of the TV to be shown on the		

Additional Information

Installing the Accessories (Wall-Mount Bracket)

To Customers:

For product protection and safety reasons, Sony strongly recommends that installing of your TV be performed by Sony dealers or licensed contractors. Do not attempt to install it yourself.

To Sony Dealers and Contractors:

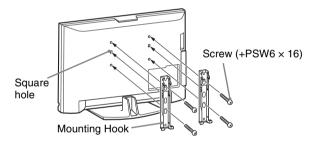
Provide full attention to safety during the installation, periodic maintenance and examination of this product.

Your TV can be installed using the Wall-Mount Bracket SU-WL500 (sold separately).

- Refer to the Instructions supplied with the Wall-Mount Bracket to properly carry out the installation.
- Refer to "Detaching the Table-Top Stand from the TV" (page 8).
- Refer to "TV installation dimensions table" (page 48).
- Refer to "Screw and Hook locations diagram/table" (page 48).

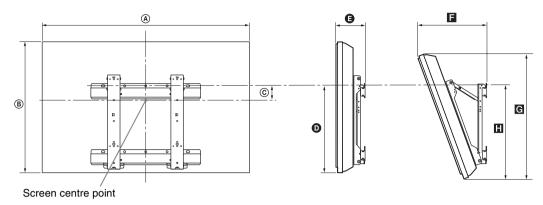


• Place the TV on the Table-Top Stand, when securing the Mounting Hook.



Sufficient expertise is required for installing this product, especially to determine the strength of the wall for withstanding the TV's weight. Be sure to entrust the attachment of this product to the wall to Sony dealers or licensed contractors and pay adequate attention to safety during the installation. Sony is not liable for any damage or injury caused by mishandling or improper installation.

TV installation dimensions table



Unit: mm

	Display dimensions		Screen centre	Length for each mounting angle				
Model Name			dimension	Angle (0°)		Angle (20°)		
	A	B	©	0	•	•	G	
KDL-52W4500	1,262	829	39	487	179	413	786	522
KDL-46W4500	1,120	742	84	487	175	380	704	521
KDL-40W4500	986	646	122	474	170	348	614	507

Figures in the above table may differ slightly depending on the installation.

WARNING

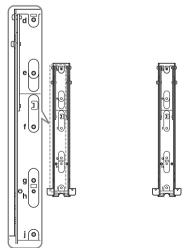
The wall that the TV will be installed on should be capable of supporting a weight of at least four times that of the TV. Refer to "Specifications" (page 49) for its weight.

Screw and Hook locations diagram/table

Model Name	Screw location	Hook location
KDL-52W4500/KDL-46W4500/KDL-40W4500	d, g	b

^{*} Hook position "a, c" cannot be used for the models in the table above.

Screw location



Hook location a* b* c*

Specifications

Model name		KDL-52W4500 KDL-46W4500 KDL-40W4500				
System						
Panel system		LCD (Liquid Crystal Display	y) Panel			
TV system		Analogue: Depending on your country selection: B/G/H, D/K, L, I Digital: DVB-T/DVB-C				
Colour/video sy	/stem		TSC 3.58/4.43 (only Video In) HL, H.264/MPEG-4 AVC HP@	0L4.0, MP@L3.0		
Channel covera	ge		HF: E21–E69/CATV: S1–S20/F F2–F10, B–Q, F21–F69/I: UHF			
Sound output		10 W + 10 W				
Input/Output	jacks					
Aerial		75 ohm external terminal for	· VHF/UHF			
→ /→ AV	V1	21-pin Scart connector (CEN audio/video output.	NELEC standard) including audi	io/video input, RGB input and TV		
→/→∞/Ş- (SMARTLINK	_		NELEC standard) including audionoutput, and SMARTLINK inte	o/video input, RGB input, S Video orface.		
→ AV3		Video input (phono jack)				
→ AV3		Audio input (phono jacks)				
G-		DIGITAL AUDIO OUT (OF	PTICAL)(digital optical jack)/A	udio output (phono jack)		
→ COMPO	NENT IN	Supported formats: 1080p, 1 Y: 1 Vp-p, 75 ohms, 0.3V no PB/CB: 0.7 Vp-p, 75 ohms PR/CR: 0.7 Vp-p, 75 ohms	080i, 720p, 576p, 576i, 480p, 4 egative sync	80i		
HDMI IN 1, 2, 3		Video: 1080/24p, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bits PC Input (see page 50) Analogue audio (minijack): 500 mVrms (HDMI IN 2 only)				
PC IN →		PC Input (Dsub 15-pin) G: 0.7 Vp-p, 75 ohms, non Sync on Green B: 0.7 Vp-p, 75 ohms, non Sync on Green R: 0.7 Vp-p, 75 ohms, non Sync on Green HD: 1-5 Vp-p VD: 1-5 Vp-p PC audio input (minijack)				
0		Headphones jack				
		CAM (Conditional Access Module) slot				
- 		USB port				
DMPORT		DIGITAL MEDIA PORT				
뭄 LAN		10BASE-T/100BASE-TX connector (Depending on the operating environment of the network, connection speed may differ. 10BASE-T/100BASE-TX communication rate and communication quality is not guaranteed for this TV.)				
Power and ot	hers					
Power requirem	nents	220-240 V AC, 50 Hz				
Screen size (me	easured diagonally)	52 inches	46 inches	40 inches		
Display resoluti		$1,920 \text{ dots (horizontal)} \times 1,0$	80 lines (vertical)			
Power consumption	in "Home"/ "Standard" mode	257 W	256 W	205 W		
	in "Shop"/"Vivid" mode	293 W	282 W	234 W		
Standby power	consumption*	0.2 W or less (20W when Quick Start is "On")				
Dimensions (Approx.)	with Table-Top Stand	126.2 × 87.1 × 34.7 cm	$112.0 \times 78.2 \times 30.7$ cm	98.6 × 68.4 × 27.9 cm		
$(\mathbf{w} \times \mathbf{h} \times \mathbf{d})$	without Table-Top Stand	126.2 × 82.9 × 11.9 cm	112.0 × 74.2 × 11.5 cm	98.6 × 64.6 × 11.0 cm		

Model name		KDL-52W4500	KDL-46W4500	KDL-40W4500	
Mass (Approx.) with Table-Top Stand		39.5 kg	31.0 kg	23.0 kg	
	without Table-Top Stand	33.0 kg	26.5 kg	19.5 kg	
Supplied accessories		See "Before Use" on page 4.			
Optional accessories		See "Installing the Accessories (Wall-Mount Bracket)" on page 47.			

^{*} Specified standby power is reached after the TV finishes necessary internal processes.

PC Input Signal Reference Chart for → PC

Resolution						
Signals	Horizontal (Pixel)	×	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
VGA	640	×	480	31.5	60	VGA
	640	×	480	37.5	75	VESA
	720	×	400	31.5	70	VGA-T
SVGA	800	×	600	37.9	60	VESA Guidelines
	800	×	600	46.9	75	VESA
XGA	1024	×	768	48.4	60	VESA Guidelines
	1024	×	768	56.5	70	VESA
	1024	×	768	60.0	75	VESA
WXGA	1280	×	768	47.4	60	VESA
	1280	×	768	47.8	60	VESA
	1280	×	768	60.3	75	
	1360	×	768	47.7	60	VESA
SXGA	1280	×	1024	64.0	60	VESA

- This TV's PC input does not support Sync on Green or Composite Sync.
- This TV's PC input does not support interlaced signals.
- This TV's PC input supports signals in the above chart with a 60 Hz vertical frequency.

PC Input Signal Reference Chart for HDMI IN 1, 2, 3

Resolution						
Signals	Horizontal (Pixel)	×	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
VGA	640	×	480	31.5	60	VGA
SVGA	800	×	600	37.9	60	VESA Guidelines
XGA	1024	×	768	48.4	60	VESA Guidelines
WXGA	1280	×	768	47.4	60	VESA
WXGA	1280	×	768	47.8	60	VESA
SXGA	1280	×	1024	64.0	60	VESA

Troubleshooting

Check whether the () (standby) indicator is flashing in red.

When it is flashing

The self-diagnosis function is activated.

- 1 Count how many () (standby) indicator flashes between each two second break.

 For example, the indicator flashes three times, then there is a two second break, followed by another three flashes, etc.
- 2 Press (b) on the top edge of the TV to turn it off, disconnect the mains lead, and inform your dealer or Sony service centre of how the indicator flashes (number of flashes).

When it is not flashing

- 1 Check the items in the tables below.
- **2** If the problem still persists, have your TV serviced by qualified service personnel.

Condition	Explanation/Solution		
Picture			
No picture (screen is dark) and no sound	 Check the aerial/cable connection. Connect the TV to the mains, and press () on the top edge of the TV. If the () (standby) indicator lights up in red, press (). 		
No picture or no menu information from equipment connected to the scart connector	 Press - (*) (*) to display the connected equipment list, then select the desired input. Check the connection between the optional equipment and the TV. 		
Double images or ghosting (only in analogue mode)	Check the aerial/cable connection. Check the aerial location and direction.		
Only snow and noise appear on the screen (only in analogue mode)	 Check if the aerial is broken or bent. Check if the aerial has reached the end of its serviceable life (three to five years in normal use, one to two years at the seaside). 		
Picture or sound noise when viewing a TV channel (only in analogue mode)	• Adjust "AFT" (Automatic Fine Tuning) to obtain better picture reception (page 43).		
Some tiny black points and/or bright points appear on the screen	• The picture of a display unit is composed of pixels. Tiny black points and/or bright points (pixels) on the screen do not indicate a malfunction.		
No colour on programmes	• Select "Reset" (page 35).		
No colour or irregular colour when viewing a signal from the → COMPONENT IN sockets	• Check the connection of the →∞/→ COMPONENT IN sockets and check if each sockets are firmly seated in their respective sockets.		
Picture freezes or contains blocks on the screen	 Check signal level (page 45). If signal bar is red (no signal) or amber (low signal), check the aerial/cable connection. Remove the connected USB device. It can be damaged or not supported by the TV. Check the website below for updated information about compatible USB devices: http://support.sony-europe.com/TV/compatibility/ 		
Sound			
No sound, but good picture	 Press ∠ +/- or ¹¾ (Mute). Check if the "Speaker" is set to "TV Speaker" (page 41). When using HDMI input with Super Audio CD or DVD-Audio, DIGITAL AUDIO OUT (OPTICAL) may not output audio signals. 		

Condition	Explanation/Solution
There is a significant difference in the output volume level between DIGITAL MEDIA PORT input and TV or other equipment input	Adjust "Volume Offset" setting in the "Sound" menu (page 36).
Connection Diagnostic Results	
"Connection successful."does not appear	 Check Connections Use a straight cable for the LAN cable. Check if the cable is connected firmly. Check the connection between the TV and the broadband router. Check Settings Change the IP address for the DNS server (see "Checking the Network Connection" on page 32) while referring to the following. Contact your Internet service provider. Specify the IP address of the router if you do not know the DNS of your Internet service provider.
Home Network	,
The server cannot be found, a list cannot be retrieved, and playback fails	 Once server settings are changed, turn the TV off and on by pressing (b) on the TV. Execute "Server Diagnostics" (page 33). When using a PC as the server Check if the PC is turned on. Do not turn off the PC while accessing. If security software is installed on the server, be sure to allow connections from external devices. For details, see the manual supplied with your security software. The load on the PC may be too high or the server application may become unstable. Try the following: Stop the server application and restart it. Restart the PC. Reduce the number of applications running on the PC. Reduce the amount of content.
Changes on the server are not being applied or displayed content differs from content on the server	• Sometimes changes are not applied to displays on the TV even though content has been added and/or deleted on the server. If this happens, go back up one level and try opening the folder or server again.
Photo and/or music files do not appear or icons are not displayed	 Preliminary Check Check that the connected device supports DLNA. Operations are not guaranteed for all servers. Also, operations differ depending on the features of the server and the content in question. Turn the connected device on. Check Connections Check that the LAN cable and/or mains lead of the server has not become disconnected. Check Settings Check that the connected device is registered under "Server Display Settings" (page 33). Check that the server is correctly configured. Check that the selected equipment is connected to the network and can be accessed. If the "IP Address Settings" in "Network" under "Network Settings" is set to "DHCP (DNS automatic)" or "DHCP (DNS manual)", it may take some time to recognise a device if there is no DHCP server. Execute "Server Diagnostics" (page 33).

Condition	Explanation/Solution
The TV cannot be found from renderer-compatible equipment (the controller)	 Check Connections Check that the LAN cable and/or mains lead of the server has not become disconnected. Check Settings Check if the "Renderer Function" is activated (page 46). Check that the connected device is registered under "Renderer Access Control" (page 46).
Channels	
The desired channel cannot be selected	• Switch between digital and analogue mode and select the desired digital/analogue channel.
Some channels are blank	 Scrambled/Subscription only channel. Subscribe to the pay TV service. Channel is used only for data (no picture or sound). Contact the broadcaster for transmission details.
Digital channels are not displayed	 Contact a local installer to find out if digital transmissions are provided in your area. Upgrade to a higher gain aerial.
General	
Distorted picture and/or sound	 Keep the TV away from electrical noise sources such as cars, motorcycles, hair-dryers or optical equipment. When installing optional equipment, leave some space between the optional equipment and the TV. Check the aerial/cable connection. Keep the aerial/cable TV cable away from other connecting cables.
The TV turns off automatically (the TV enters standby mode)	 Check if the "Sleep Timer" is activated, or confirm the "Duration" setting of "On Timer Settings" (page 38). If no signal is received and no operation is performed in the TV mode for 10 minutes, the TV automatically switches to standby mode.
The TV turns on automatically	• Check if the "On Timer" is activated (page 38).
Some input sources cannot be selected	• Select "AV Preset" and cancel "Skip" of the input source (page 40).
The remote does not function	• Replace the batteries.
A channel cannot be added to the Favourite list	• Up to 999 channels can be stored in the favourite list.
You have a blank TV listings in the GUIDE Plus+ system	 Check the aerial/cable connection. Your cabling and set-up is OK, but your GUIDE Plus+ system was not connected for enough time to receive TV listings data. Leave the TV "STANDBY" overnight (24 hours) or use "Manual Data Download" (page 19). You live in a country/region where the GUIDE Plus+ system is not yet available. Check the list of countries to see if you are in a region that is supported. (http://www.europe.guideplus.com/)
HDMI equipment does not appear on "HDMI Device List"	Check that your equipment is "Control for HDMI" compatible equipment.
Not all channels are tuned	Check support web site for cable provide information. http://support.sony-europe.com/TV/DVBC/
You cannot select "Off" in "Control for HDMI"	• If any "Control for HDMI" compatible audio equipment is connected to the TV, you cannot select "Off" in this menu. If you want to change the audio output to the TV speaker, select "TV Speaker" in the "Speaker" menu (page 41).